

# Anti-Synaptophysin antibody [EP1098Y] - BSA and Azide free ab214621

KO 評価済 リコンビナント RabMAb

★★★★☆ 1 Abreviews 画像数 4

### 製品の概要

|              |  |
|--------------|--|
| 製品名          | Anti-Synaptophysin antibody [EP1098Y] - BSA and Azide free   |
| 製品の詳細        | Rabbit monoclonal [EP1098Y] to Synaptophysin - BSA and Azide free  |
| 由来種          | Rabbit   |
| アプリケーション     | <b>適用あり:</b> WB, ICC/IF, Flow Cyt (Intra)<br><b>適用なし:</b> IHC-P  |
| 種交差性         | <b>交差種:</b> Mouse, Rat, Human  |
| 免疫原          | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.  |
| ポジティブ・コントロール | IHC-P: Human medullablastoma. ICC/IF: PC12 cells. Flow Cyt (intra): PC12 cells. WB: Human, mouse and rat brain tissue lysates. HEK-293T cell lysate.   |
| 特記事項         | <p>ab214621 is the carrier-free version of <a href="#">ab52636</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p> |

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## 製品の特性

|          |   |
|----------|---|
| 製品の状態    | Liquid  |
| 保存方法     | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| バッファー    | pH: 7.20<br>Constituent: PBS                  |
| キャリア・フリー | はい  |
| 精製度      | Protein A purified                            |
| ポリモノ     | モノクローナル                                       |
| クローン名    | EP1098Y                                       |
| アイソタイプ   | IgG   |

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab214621の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション         | Abreviews | 特記事項   |
|------------------|-----------|--|
| WB               |           | Use at an assay dependent concentration. Detects a band of approximately 38 kDa (predicted molecular weight: 34 kDa).                              |
| ICC/IF           | ★★★★★ (1) | Use at an assay dependent concentration.   |
| Flow Cyt (Intra) |           | Use at an assay dependent concentration.<br><b>ab199376</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

**追加情報**      Is unsuitable for IHC-P.

## ターゲット情報

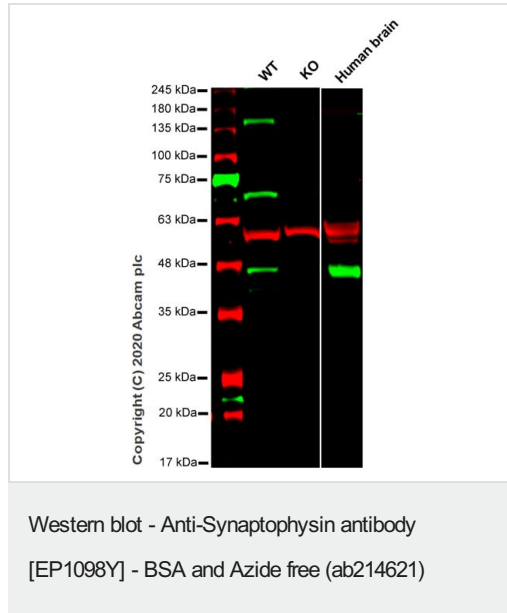
|       |  |
|-------|--|
| 機能    | Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term synaptic plasticity. |
| 組織特異性 | Characteristic of a type of small (30-80 nm) neurosecretory vesicles, including presynaptic vesicles, but also vesicles of various neuroendocrine cells of both neuronal and epithelial phenotype.                 |
| 関連疾患  | Mental retardation, X-linked, SYP-related  |
| 配列類似性 | Belongs to the synaptophysin/synaptobrevin family.<br>Contains 1 MARVEL domain.  |
| ドメイン  | The calcium-binding activity is thought to be localized in the cytoplasmic tail of the protein.  |
| 翻訳後修飾 | Ubiquitinated; mediated by SIAH1 or SIAH2 and leading to its subsequent proteasomal  |

degradation.

## 細胞内局在

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Cell junction, synapse, synaptosome.

## 画像



**All lanes** : Anti-Synaptophysin antibody [EP1098Y] ([ab52636](#)) at 1/1000 dilution

**Lane 1** : Wild-type HEK-293T cell lysate at 20 µg

**Lane 2** : SYP knockout HEK-293T cell lysate at 20 µg

**Lane 3** : Human brain tissue lysate

Performed under reducing conditions.

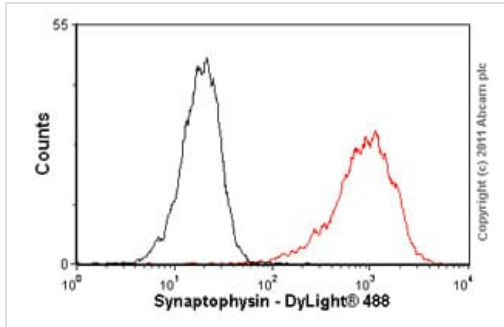
**Predicted band size:** 34 kDa

**Observed band size:** 38 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab52636](#)).

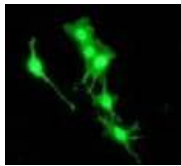
**Lanes 1-3:** Merged signal (red and green). Green - [ab52636](#) observed at 38 kDa. Red - loading control, [ab7291](#) observed at 50 kDa.

[ab52636](#) Anti-Synaptophysin antibody [EP1098Y] was shown to specifically react with Synaptophysin in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab267272](#) (knockout cell lysate [ab257060](#)) was used. Wild-type and Synaptophysin knockout samples were subjected to SDS-PAGE. [ab52636](#) and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti- Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti- Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-Synaptophysin antibody [EP1098Y] - BSA and Azide free (ab214621)

Overlay histogram showing PC12 cells stained with **ab52636** (red line). The cells were fixed with methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab52636**, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG (0.5µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a slightly decreased signal in PC12 cells fixed with 4% paraformaldehyde (10 min) used under the same conditions. Please note that Abcam do not have data for use of this antibody on non-fixed cells. We welcome any customer feedback. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52636**).



Immunocytochemistry/ Immunofluorescence - Anti-Synaptophysin antibody [EP1098Y] - BSA and Azide free (ab214621)

This ICC data was generated using the same anti-Synaptophysin antibody clone, EP1098Y, in a different buffer formulation (cat# **ab52636**).

PC12 cells labelled with **ab52636** at 1/250 - 1/500 dilution

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Synaptophysin antibody [EP1098Y] - BSA and Azide free (ab214621)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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